CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC 17025 : 2005

TEST REPORT ON CEMENT

*CUSTOMER	:	Asst. Executive Engineer, I Uttarahalli Sub Division, Jagadguru, BBMP, Bangalore.
*AGENCY	:	Mr. M Rajashekar, #301, 16th Cross, Jogeshwari, Rajarajeshwari Bangalore
*NAME OF THE WORK	:	Improvements and Construction of CC road and drains at old Maheshwara temple road in Uttarahalli W and No. 15, BBMP, Bangalore.
*REFERENCE	:	BBMP/EE/ AEE/ 119543/ PR / 2016-17 Dated: 30.05.2016
SAMPLE ID	:	Cement Sample 2
SAMPLE RECEIVED ON	:	02.06.2016
PERIOD OF TESTING	:	04.06.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS 4031 (Part -4) 1988(RA 2009)	29.50 %	
2	a) Initial Setting Time	IS 4031 (Part -5) 1988(RA 2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS 4031 (Part -5) 1988(RA 2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS 4031 (Part-3) 1988(RA 2009)	1 mm	Not more than 10mm

*Informations is furnished by the Customer Representative

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VISHWANATH. I.A.
Chief Executive Officer

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Baseveshwaranagar, Bangalore
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No: CTCE/BBMP/MR/CSR-05/0286/SAND-Gradation/2016-17 04.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*Client	: Asst. Executive Engineer, T. Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.
*Agency	: Mr. M Rajashekar, #98, 34th Cross, Jugunahalli, Rajajinagara,Bangalore.
*Name of Work	: Improvements and Construction of CC road and drains at old Maheshwari temple road in Dasarahalli Ward No. 15, BBMP, Bangalore.
*Reference	: BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 02.05.2016
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates-Sample 2
Sample Received on	: 02.05.2016
Date of Testing	: 04.05.2016

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.00	90-100	90-100	90-100	95-100
2.36	76.90	60-95	75-100	85-100	95-100
1.18	56.40	30-70	55-90	75-100	90-100
600 Micron	32.50	15-34	35-59	60-79	80-100
300 Micron	17.50	5-20	8-30	12-40	15-50
150 Micron	8.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Chief Executive Officer

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/MR/Cgr on rd/old Mahes/06/2016-17 04.05.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.
* Agency	: **Mr. M Rajashekar,** #90, 54th Cross, Jagannahalli, Rajarajeshwari Nagara,Bangalore.
* Name of Work	: Improvements and Construction of CC road and drains at old Maheshwari temple road in Dasarahalli Ward No. 15, BBMP, Bangalore
* Reference	: BBMP/DZ/AEE/ DDSD/PR/2016-17 Dated: 02.05.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)-Sample 2
Sample Received on	: 02.05.2016
Date of Testing	: 04.05.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.39	95-100	85-100
20	39.40	30-70	0-20
10	22.76	10-35	0-5
4.75	6.71	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Chief Executive Officer

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Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, T. Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.

Agency : Mr. M Rajashekar,
#90, 54th Cross, Jogeshwalli, Rajarajeshwari Nagar, Bangalore

Name of the Work : Improvements and Construction of CC road and drains at old Mahadevaiah temple road in Dasarahalli Ward No. 15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/WR/2016-17
Dated: 02.05.2016

Date of Test : 06.05.2016

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	516	556	13.40	O.K.	O.K.

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathi Nagara,
Basaveshwaranagar,
Bangalore-560079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore 79.
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Job No.: CTCE/ BBMP/ MR/ CDS-05/ NABL/ CTR/ 2016-17 Dated: 07.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- Customer : Asst. Executive Engineer, T. Dasarahalli Sub Division, Nagarajeswara, BBMP, Bangalore.
- Agency : Mr. M Rajashekar, #790, 34th Cross, Jayamahalli, Rajajinagara,Bangalore.
- Name of the work : Improvements and Construction of CC road and footpath at the Maheshwara temple road in Dasarahalli Ward No. 15, BBMP, Bangalore.
- Reference : BBMP/EO2/ AEE/TDHO/ PR/ 2016-17 Dated: 02.06.2016
- Sample ID : RCC Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm^2
- Technical Reference : IS: 516-1959 (Reaffirmed 2004)
- Grade of Concrete : M_{30}
- Compressive Strength as on : 28th day
- Sample Received on : 07.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2016	07.06.2016	8.157	520.6	23.27
2	10.05.2016	07.06.2016	8.269	526.5	23.40
3	10.05.2016	07.06.2016	8.167	518.5	22.93

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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	Asst. Executive Engineer, (Unordoli sub Division, Rajajinagar, BBMP, Bangalore
* Agency	Mr. M Rajashekar, #301, 16th Cross, Yelachenahalli, Kanakapura Road,Bangalore
* Name of the work	Improvements and Construction of CC road and drains at old Subramanya temple road in Uttarahalli Ward No. 15, BBMP, Bangalore.
* Reference	BBMP/CC/AEE/UTH/PR/2016-17 Dated 16.06.2016
* Sample ID	Road Concrete
Size of cubes	150mm(150mm×150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2004)
* Grade of Concrete	M_{30}
Compressive Strength as on	28th day
Sample Received on	22.06.2016

Sl.No:	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm²)
1	25.05.2016	22.06.2016	8.159	699.5	31.09
2	25.05.2016	22.06.2016	8.378	795.0	35.33
3	25.05.2016	22.06.2016	8.324	725.6	32.25

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.
* Agency	: Mr. M Rajashekar, #593, 34th Cross, Jagarahalli, Rajajinagara,Bangalore
* Name of the work	: Improvements and Construction of CC road and drains at old Maleshwara temple road in Dasarahalli Ward No: 15, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 05.05.2016
* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
* Grade of Concrete	: M_{30}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 23.06.2016

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm²)
1	26.05.2016	23.06.2016	8.189	705.2	31.34
2	26.05.2016	23.06.2016	8.274	712.6	31.67
3	26.05.2016	23.06.2016	8.364	731.2	32.50

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